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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/562,627	12/22/2005	Mu-Hyeon Choe	428.1060	6450	
20311 LUCAS & ME	7590 01/29/2008 RCANTI LLP		EXAM	INER	
475 PARK AVENUE SOUTH			KOSSON, I	KOSSON, ROSANNE	
15TH FLOOR NEW YORK, NY 10016			ART UNIT	PAPER NUMBER	
,			1652	·	
		•	MAIL DATE	DELIVERY MODE	
			01/29/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•,		Application No.	Applicant(s)			
Office Action Summary		10/562,627	CHOE ET AL.			
		Examiner	Art Unit			
		Rosanne Kosson	1652			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status		•				
 Responsive to communication(s) filed on 11 January 2008. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Dispositi	on of Claims					
5) 6) 7)	Claim(s) <u>21-47</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>21-47</u> are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Example.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)		·			
1) Notice 2) Notice 3) Inform	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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DETAILED ACTION

Election/Restrictions

The response filed on January 11, 2008 has been received and entered. As the elected invention, Applicants have elected as the monomer the fusion protein of Group 1 and as the dimer a homodimer that is two units of the fusion protein of Group 1. It was clearly explained in the Office action of May 23, 2007 that the different dimers are <u>not</u> species; they are different inventions. Applicants have elected the linker of claim 21(iii)(a) as the species of linker in the elected invention.

Upon reconsideration of the claims, it has been determined that further restriction is required. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows. Claim 30 recites fusion proteins that have two different structures: 1) E–L–F or 2) F–L–E, in which E is an enzyme (the elected binding domain), L is the linker (the polypeptide having at least one free cysteine in the monomer, located adjacent to or up to 45 amino acids away from the enzyme) and F is the functional domain (an antibody containing at least the Fab portion). In the first protein, the enzyme is N-terminal, while, in the second protein, the antibody (or functional domain) is N-terminal.

Applicants are required, in reply to this action, to elect a single species- either 1) E–L–F or 2) F–L–E to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicants will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicants must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons. Each species is a different fusion protein, because each has a different structure and different chemical and biological properties, requiring a separate search for each.

Applicants are advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rosanne Kosson whose telephone number is 571-272-2923. The examiner can normally be reached on Monday-Friday, 8:30-6:00, alternate Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 571-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rosanne Kosson Examiner, Art Unit 1652

Rosume Kosson

rk/2008-01-18

ELIZABETH SLOBODY

ELIZABETH SLOBODYANSKY, PH.D PRIMARY EXAMINER